

## C-2-h. Grazing Maui Benchmark System Worksheet

|     |                                 |   |
|-----|---------------------------------|---|
| 1   | STATE                           | Hawaii  |
| 2   | FIELD OFFICE                    | Wailuku   |
| 3   | MLRA                            | 162 and 166   |
| 4   | COMMON RESOURCE AREA (CRA)      | <b>Grazing Maui</b>   |
| 5   | RESOURCE INTERPRETATIONS        | <i>see Section II FOTG for interpretations</i>  |
| 5.1 | SOIL                            | Pulehu-Ewa-Jaucas association<br>Pauwela-Haiku association<br>Hana- Makaalae-Kailua association<br>Kamaole-Oanapuka association<br>Puu Pa-Kula-Pane association<br>Hydrandepts-Tropaquods association<br>Waiakoa-Keahua-Molokai association<br>Honolua-Olelo association<br>Keawakapu-Makena association<br>Laumaia-Kaipoi-Olinda association<br>Rock land-Rough mountainous land association |
| 5.2 | WATER                           | Not Available   |
| 5.3 | AIR                             | Not Available   |
| 5.4 | PLANT                           | Not Available   |
| 5.5 | ANIMAL                          | Not Available   |
| 5.6 | HUMAN                           | Not Available   |
| 6   | HYDROLOGIC UNIT                 | 20020000  |
| 7   | SYSTEM TEMPLATE LABEL           | <b>GMA00</b>  |
| 8   | SYSTEM NAME                     | <b>Grazing Maui, Benchmark</b>  |
| 9   | PLANNING PHASE                  | Benchmark   |
| 10  | PLANNING LEVEL                  | Not Applicable  |
| 11  | NRCS LANDUSE                    | NPAS  |
| 12  | EXISTING CONSERVATION PRACTICES |   |
|     |                                 | 1. None<br>2.<br>3.<br>4.<br>5.   |

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|    |                         |  |
|----|-------------------------|--|
| 13 | SYSTEM NARRATIVE        |  |
|    |                         |  |
|    | Representative Areas:   | All grazed land on Maui.   |
|    | Land Use:               | Livestock grazing on naturalized pasture.  |
|    | Topography:             | Flat to steep slopes.  |
|    | Soil: Maui -            | <p><u>Pulehu-Ewa-Jaucas association</u>: Deep, nearly level to moderately sloping, well-drained and excessively drained soils that have a moderately fine textured and coarse-textured subsoil or underlying material; on alluvial fans and in basins.</p> <p><u>Waiakoa-Keahua-Molokai association</u>: Moderately deep and deep nearly level to moderately steep, well-drained soils that have a moderately fine textured subsoil; on low uplands.</p> <p><u>Honolua-Olelo association</u>: Deep, gently sloping to moderately steep, well-drained soils that have a fine-textured subsoil; on intermediate uplands.</p> <p><u>Rock land-Rough mountainous land association</u>: Very shallow, steep and very steep, rock land and rough mountain land.</p> <p><u>Puu Pa-Kula-Pane association</u>: Deep, gently sloping to steep, well-drained soils that have a medium-textured or moderately fine textured subsoil or underlying material; on intermediate and high uplands.</p> <p><u>Hydrandepts-Tropaquods association</u>: Gently sloping to steep, well-drained to poorly drained soils that have a moderately fine textured or fine textured subsoil; on intermediate and high uplands.</p> <p><u>Hana-Makaalae-Kailua association</u>: Moderately deep and deep, gently sloping to steep, well-drained soils that have a moderately fine textured or fine textured subsoil or underlying material; on intermediate uplands.</p> <p><u>Pauwela-Haiku association</u>: Deep, gently sloping to moderately steep, well-drained soils that have a fine-textured subsoil; on low uplands.</p> <p><u>Laumaia-Kaipoi-Olinda association</u>: Deep, gently sloping to very steep, well-drained soils that have a moderately fine textured or medium-textured subsoil; on intermediate and high uplands.</p> <p><u>Keawakapu-Makena association</u>: Gently sloping to moderately steep, well-drained soils that have a fine-textured to medium-textured subsoil and are shallow to deep over fragmental lava; on low uplands.</p> <p><u>Kamaole-Oanapuka association</u>: Gently sloping to moderately steep, well-drained, very stony and extremely stony soils that have a fine-textured or medium-textured subsoil and are shallow to deep over fragmental lava; on low and intermediate uplands.</p> |
|    | Rainfall:               | 10 - 100" per year.  |
|    | Special Considerations: | Noxious plants present.  |

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| 14 | RESOURCE CONCERNS  | MAGNITUDE/EFFECTS   |
|----|--|---|
|    | 1. Soil / Erosion / Sheet & Rill Erosion                             | 1. Soil loss exceeds acceptable tolerance level. Sheet & rill erosion estimated at _____ tons/acre/year.            |
|    | 2. Soil / Erosion / Streambank Erosion                               | 2. Stream banks and bottoms are not stabilized.   |
|    | 3. Soil / Condition / Soil Compaction                                | 3. Soil compaction in livestock traffic areas increases runoff and inhibits growth of forage.                       |
|    | 4. Water / Quality / Suspended Sediment & Turbidity in Surface Water | 4. According to DOH reports, state water quality standards have been exceeded for turbidity in some coastal waters. |
|    | 5. Plant / Condition / Plant Productivity                            | 5. Plants do not provide adequate forage for livestock.   |
|    | 6. Plant / Condition / Plant Health & Vigor                          | 6. Noxious plants, such as gorse and broom sedge, cause plant stress and decrease forage production.                |
|    | 7. Animal / Habitat / Domestic Animal Water Requirements             | 7. Water supply and distribution is inadequate and inefficient.   |